

33315

S/560/61/000/010/013/016  
D299/D302

Effect of space-flight...

space-flight conditions have a stimulating effect on the growth of both species; this stimulating effect is more noticeable in the radiostable species *N. damascena*. In general, dry seeds are fairly stable to ionizing radiation; thus, the seeds of *A. fistulosum* have to be irradiated by a dose of 250 - 500 r, and those of *N. damascena* by several thousands of röntgen in order to observe an actual increase in chromosome rearrangements. The authors arrive at the conclusion that the increase in the growth of the seeds cannot be related to stimulating radiation doses, as the stimulating effect is stronger in the radiostable species *N. damascena* and weaker in the radiosensitive species *A. fistulosum*. If the observed effect on the *N. damascena* would have been due to radiation, the indicated dose would have caused chromosome aberrations in the *A. fistulosum* too. This was, however, not observed. It is evident that the reason for the observed effect should be sought in other factors which are active in space-flight--factors which are thoroughly unlike those

X

Card 2/3

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Effect of space-flight...

S/560/61/000/010/013/016  
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affecting terrestrial seed-growth. There are 2 figures, 2 tables and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: A. T. Krebs, Avia Medicine, 25, 331, 1954; J. Eugster, D. G. Simons, Phys. and Med. Atmosph. and Space, New York-London, John Wiley and Sons Inc., 1960, pp. 182-192.

SUBMITTED: May 3, 1961

X

Card 3/3

' SIDOROV, B.N.; DUBININ, N.P.; SOKOLOV, N.N.

Experimental study of the role of free radicals and the direct effect  
in the primary mechanism of the radiation effect. Radiobiologial  
no.2:161-171 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(RADICALS (CHEMISTRY))  
(RADIATION—PHYSIOLOGICAL EFFECT)

SOKOLOV, N. N.

## Correlation Between the Redox Potential of the Lymph of Crickets During Irradiation and Radiosensitivity

G. V. Smirnov

A micromethod has been developed to determine the redox potential of the haemolymph of insects *in vivo*. The effect of various protective factors (hypoxia, protective substances) which influence the radiosensitivity of insects has been investigated.

Uncorrelated differences in the values of the redox potential have been observed for solutions of protective substances and for tissues into which protective substances had been introduced. On the other hand, when protective substances are introduced into the organism during hypoxia, the values of the redox potential exactly correlate with the magnitude of the protective effect and radiosensitivity. The data reported in the literature which failed to show such correlation were obtained when the potential was measured *in vitro* and did not allow for the redistribution of the rates of oxidation-reduction reactions in living systems, altered by the protective effects.

Institute of State University, Moscow, USSR

(d)

## Direct and Indirect Radiation Damage to the Cell Nucleus

N. P. Dubinin, B. N. Sidorov and N. N. Sokolov

It is known that molecules in aqueous solution can undergo radiochemical reactions due to free radicals from the radiolysis of water, or by direct energy absorption.

The genetic effectiveness of free radicals produced chemically within the cell (Fenton reaction, reaction of ascorbic acid with hydrogen peroxide) allows us to assess the importance of the direct and indirect radiation effects on chromosomes. It was shown in plant cells (rootlets of *Allium fistulosum*) that substances which protect the chromosomes from the effect of the free radicals OH and HO<sub>2</sub>, obtained chemically (K, KB, hyposulphite, etc.) are not protective when the chromosomes are irradiated with X-rays. We conclude that the genetic effect of radiation is due mainly to the direct effect and not to the products of water radiolysis.

Parallel experiments with DNA solutions (M. I. Mekshenkov) showed that the effectiveness of the direct action on DNA is much greater than that of the indirect effect.

The considerable protective ability of substances which protect chromosomes from free radicals was demonstrated in solutions of DNA only at low DNA concentrations. In solutions with high DNA concentrations the protective effect is virtually absent which points to the predominant rôle of the direct effect.

Institute of Biophysics, Academy of Sciences of the USSR, Moscow

report presented at the 2nd Intl. Congress of Radiation Research,  
Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

SIDOROV, B.N.; SOKOLOV, N.N.

Effect of the conditions of space flight on the seeds of Allium  
fistulosum and Nigella damascena. Probl.kosm.biol. 1:248-251  
'62. (MIRA 15:12)  
(SPACE FLIGHT--PHYSIOLOGICAL EFFECT) (SEEDS)

S/865/62/002/000/016/042  
D405/D301

AUTHORS: Khvostova, V.V., Prokof'yeva-Bel'govskaya, A.A.,  
Sidorov, B.N. and Sokolov, N.N.

TITLE: Effects of space flight conditions on seeds of higher plants and an actinomycetes

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962, 153-163

TEXT: The seeds of plants and the spores of actinomycetes were selected from the viewpoint of their chromosome stage and owing to their practical value in prolonged space flights. The experimental method is described. In the case of seeds, the genetic effect was estimated by the number of cells with chromosome aberrations in the rootlets. It was found that the percentage of cells with chromosome aberrations in the first mitoses of the rootlets of the wheat ППР-186 (PPG-186) increased after flight on the space ships Vostok and Vostok-2. The same effect was observed in pea seeds.

Card 1/2

S/865/62/002/000/016/042  
D405/D301

Effects of space flight ...

No such effects were observed in the seeds of *Allium fistulosum* and *Nigella damascena* (winter onion and ranunculus). Thus, the genetic effect was most marked in the case of wheat, which has numerous long chromosomes. An analysis of the types of chromosome aberration also shows that the chromosomes are affected by the flight conditions. It is however not clear precisely which factors act on the chromosomes. With regard to physiological effects, the germinating ability and growth energy of the seeds of *Allium* and *Nigella* were stimulated; this applies in particular to the radiation resistant species (*Nigella*). An increase in mitotic activity (as determined by the percentage of dividing cells) was observed only in the case of the pea species *Spartanets*. Two strains of the spores of *Actinomyces erythreus* reacted differently from the space flight conditions. The viability of the strain with large nucleic elements and resistant to ultraviolet radiation increased, whereas the strain sensitive to ultraviolet radiation exhibited a sharp drop in viability. The viability of the spores of *Actinomyces aureofaciens* decreased sharply. The growth of the mycelium of both strains of *Act. erythreus* was stimulated. There are 11 figures.

Card 2/2

SIDOROV, B.N.; SOKOLOV, N.N.

Radiation analysis of chromosome discreteness during the  
process of autoreproduction. Radiobiologija 3 no.3:415-419  
'63. (MIRA 17:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

SIDOROV, B.N.; SOKOLOV, N.N.

Lysis of chromosomes and the blockade of the spindle. Biul.  
(MIRA 16:10)  
MOIP. Otd. biol. 68 no.5:78-91 S-0 '63.

SIDOROV, B.N.; SOKOLOV, N.N.

Lysis of the chromosomes accompanying spindle blockade. Dokl.  
AN SSSR 150 no.3:653-656 My '63. (MIRA 16:6)

1. Institut biologicheskoy fiziki AN SSSR. Predstavleno  
akademikom V.N. Sukachevym.  
(Chromosomes) (Karyokinesis)

SIDOROV, B.N.; SOKOLOV, N.N.

Radiation analysis of the structure and reproduction of chromosomes.  
(MIRA 18:7)  
Radiobiologiya 4 no.6:828-835 '64.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

SIDOROV, B.N.; SOKOLOV, N.N.; ANDREYEV, V.S.

Mutagenic effect of ethylenimine in a series of cell generations.  
(MIRA 18:10)  
Genetika no.1:112-122 '65.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

SOKOLOV, N. O.

Mr., Forestry Acad. im. S. M. Kirov, Leningrad, -cl949-. "Some Characteristics of  
'Karelian Birch,'" Botan. Zhur, 34, No. 4, 1949.

3197 SOKOLOV, N. O.

Dekorativnaya dendrologiy. Metod. ukazaniya. (Dlya stydentov Fak.  
ozeleneniya gorodov. i naselennykh mest). L 1954. 72s 20sm (m-vo  
Vyssh. Obrazovaniya. SSSR. Vsesoyuz. zaoch. Lesotekhn in-t) 250EKZ.  
Bespl. (54-57708)

SOKOLOV, N.O.

Problems of the further study of the Karelian birch. Izv.Kar. i Kol.  
fil.AN SSSR no.3:96-102 '58. (MIRA 11:12)

1. Institut lesa Karel'skogo filiala AN SSSR.  
(Karelia--Birch)

OSTANIN, Ye.S., kand.sel'khoz.nauk, otv.red.; SOKOLOV, N.O., kand. sel'khoz.nauk, red.; SHIPEKOVICH, V.Ya., kand.biol. nauk, red.; SOKOLOV, D.V., red. izd-va; AREF'YEVA, G.P., tekhn. red.

[Problems of silviculture and forest entomology in Karelia]  
Voprosy lesovedeniia i lesnoi entomologii v Karelii. Moskva,  
(MIRA 15:8)  
Akad.nauk SSSR, 1962. 119 p.

1. Akademiya nauk SSSR. Karel'skiy filial, Petrozavodsk.  
(Karelia--Forests and forestry)  
(Karelia--Forest insects)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020007-8

SO. 01. V. I. P.

Mr., Uzbekistan Inst. Malaria & Parasitology, Tashkent, -1941-. "Influence of Sun Radiation on the Distribution of Anopheles Hyrcanus Larvae under Conditions of Rice Fields," Dok. AN, '41, No. 2, 1941.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652020007-8"

SOKOLOV, N.P. (Karaganda)

Echinococcal affections and their prevention. Fel'd.i akush. no.4:  
22-25 Ap '54. (MIRA 7:4)  
(Hydatids)

SOKOLOV N.P.

Data on echinococcosis in Karaganda Province. Med. paraz. in paraz.  
bol. no.4:313-317 O-D '54. (MIRA 8:2)

1. Iz Pervoy klinicheskoy gorodskoy bol'nitsy Karagandy (Glavnnyy  
vrach bol'nitsy N.P. Akulov)  
(ECHINOCOCCOSIS, epidemiology,  
in Russia)

*SOKOLOV, N. P.*

SOKOLOV, N.P. (Karaganda)

Determining the volume of erythrocytes by means of the Panchenkov's apparatus. Klin.med. 32 no.2:71-73 P '54. (MLRA 7:5)

1. Iz klinicheskoy laboratorii (zaveduyushchiy N.P.Sokolov) 1-y klinicheskoy gorodskoy bol'nitsy Karagandy.  
(Blood--Corpuscles and platelets) (Blood--Sedimentation)

SOKOLOV, N. P.

USSR/Biology - Ichthyology

Card 1/1 Pub. 86 - 26/37

Authors : Sokolov, N. P., Prof.

Title : Acclimatization of the gambusia

Periodical : Priroda 43/10, 112-114, Oct 1954

Abstract : The problem of ridding swampy regions of malaria-propogating mosquitos is discussed. One of the solutions might be the breeding of minnows known under the Latin name of gambusia affinis holbrooki. A description is given of the characteristics and life habits of this minnow, which feeds on the larvae of mosquitoes. Two Russian references (1934 and 1939). Illustrations

Institution : ...

Submitted : ...

SOKOLOV, N.P., professor (Karaganda)

Biological method of malaria mosquito control. Fel'd. i akush. no.2:  
31-34 P '55. (MLRA 8:4)

(MOSQUITOES,

control with Gambusia)

(FISH,

Gambusia, mosquito control)

SOKOLOV, N.P., kandidat biologicheskikh nauk.

Modern methods of staining reticulocytes and thrombocytes. Lab.  
delo no.3:20-21 My-Je '55. (MLRA 8:8)

1. Iz klinicheskoy laboratorii 1-y Gorodskoy klinicheskoy bol'-nitsy (glavnnyy vrach N.P. Akulov), Karaganda.

(BLOOD PLATELETS,

staining)

(ERYTHROCYTES,

reticulocytes, staining)

(STAINS AND STAINING,

of blood platelets & reticulocytes)

SOKOLOV, N.P., Prof. (Karaganda)

Prevention of some infections having natural foci. Fel'd.i akush.  
no.8:30-35 Ag '55. (MLRA 8:10)  
(COMMUNICABLE DISEASES, epidemiol.  
transmited by ticks in new settlements in Russia from  
animals)  
(ANIMALS, dis.  
transm.to men by ticks in new settlements in Russia)

SOKOLOV, N.P. (Karaganda)

Allergic reactions of skin. Med. sestra no.1:11-14 Ja '56  
(MLRA 9:3)

(ALLERGY) (MEDICAL TESTS)

SOKOLOV, N.P.

Prevention of echinococcosis in reclaiming new soil. Sov.med. 20  
no.9:91-93 S '56. (MLRA 9:11)

1. Iz l-y gorodskoy klinicheskoy bol'nitsy Karagandy (glavnyy  
vrach N.N.Liberman)  
(ECHINOCOCCOSIS, prev. and control  
in Russia, in virgin soil regions)

SOKOLOV, N.P.

Reclamation of new lands and tasks of medical geography. Sov. med.  
20 no.1:61-66 Ja '56. (MIRA 9:5)

1. Iz pervoy gorodskoy klinicheskoy bol'nitsy Karagandy (glavnnyy  
vrach I.I. Liberman)

(GEOGRAPHY,  
med. in appropriation of new lands in Russia)

(RURAL CONDITIONS  
in Russia, appropriation of new lands & med. geography)

SOKOLOV, N.P., professor (Andizhan).

Physiology of man in a hot climate. Vsel'd i akush. 22 no.4:26-31  
Ap '57. (MIR 10:6)

(HEAT--PHYSIOLOGICAL EFFECT)

SOKOLOV, N.P., professor (Andizhan)

Role of the chemical composition of soil and water in the etiology  
of endemic diseases. Fel'd. i akush. 22 no.5:17-22 My '57.  
(MIRA 10:6)

(DISEASES--CAUSES AND THEORIES OF CAUSATION)  
(SOILS--ANALYSIS) (WATER--ANALYSIS)

SOKOLOV N.P., professor.

Problems of medical geography. Priroda 46 no.6:35-40 Je '57.  
(MIRA 10:7)

1. Andizhanskiy gosudarstvennyy meditsinskiy institut (Uzbekskaya SSR).  
(Diseases--Causes and theories of causation) (Medical geography)

*S. A. SOKOLOV, M. P.*  
SOKOLOV, N.P., prof.

Problems of medical geography. Sov.zdrav. 16 no.9:8-13 S '57.  
(MIRA 10:12)

1. Iz Andizhanskogo meditsinskogo instituta.  
(GEOGRAPHY  
geomed. aspects of distribution of dis.)  
(DISEASES  
same)

SOKOLOV, N.P., prof.

Basic problems of medicogeographical cartography in the U.S.S.R.  
Sov.zdrav. 17 no.9:18-24 S'58 (MIRA 11:8)

1. Iz Andizhanskogo meditsinskogo instituta.  
(PUBLIC, HEALTH  
med. cartography in Russia (Rus))  
(GEOGRAPHY,  
same (Rus))

SOKOLOV, N.P.

Some aspects of 30 years of acclimatization of *gambusia* and  
further plans. Med. paraz. i paraz. bol. 27 no.2:211-214 Mr-Ap  
'58 (MIRA 11:5)

(FISH,  
*Gambusia*, results of acclimatization experiments (Rus))

ALIMOV, U.A.; SOKOLOV, N.P.

[Echinococcal diseases and their prevention in the virgin lands]  
Ekhinokokkove zabolevaniia i ikh profilaktika na novykh zemliakh  
osvoeniia. Tashkent, Uzmedgiz, 1959. 41 p. (MIRA 13:11)  
(HYDATIDS)

SCHOLOV, M. P.

"Current problems in medical geography and their practical significance."  
p. 48

Desyatoye Soveshchaniye po parazitologicheskim problemam i  
prirodnoodushagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference  
on Parasitological Problems and Diseases with Natural Foci 22-29  
October 1959), Moscow-Leningrad, USSR, Academy of Medical Sciences  
USSR and Academy of Sciences USSR, No. 1 1960.

SOKOLOV, N.P., prof.; ABDULLAYEVA, A.A.

History of studies in the medical geography of regions of the  
Fergana Valley. Sov.zdrav. 19 no.1:52-58 '60. (MIRA 13:4)

1. Iz Andizhanskogo meditsinskogo instituta.  
(FERGANA--MEDICAL GEOGRAPHY)

SOKOLOV, N.P., prof.

Urgent problems in medical geography. Sov. med. 24 no.6:135-144  
Je '60. (MIRA 13:9)

1. Iz Andizhanskogo gosudarstvennogo meditsinskogo instituta.  
(MEDICAL GEOGRAPHY)

SOKOLOV, N.P., prof. (Andizhan)

Medical geography. Fel'd. i akush. 25 no.2:11-15 P '60.  
(MIRA 13:5)  
(MEDICAL GEOGRAPHY)

SOKOLOV, N.P.

Microclimate (solar radiation) of the daily refuge of *Anopheles hyrcanus* in rice fields. Med.paraz.i paraz.bol 29 no.5:545-549 (MIRA 13:12)  
S-0 '60.

1. Iz kafedry biologii Andizhanskogo gosudarstvennogo meditsinskogo instituta (zav. kafedroy - prof. N.P. Sokolov).  
(UZBEKISTAN—MOSQUITOES)

SOKOLOV, N.P.

Apparatus for studying the distribution of aquatic organisms in rice fields. Trudy Gidrobiol. ob-va 11:424-425 '61. (MIRA 15 1)

1. Kafedra obshchey biologii Andizhanskogo gosudarstvennogo meditsinskogo instituta, g. Andizhan Uzbekskoy SSR.  
(Plankton research)

SOKOLOV, N.P., prof. (Andizhan)

Concept and classification of medical geography. Sov. zdrav. 20  
no.9:51-57 '61. (MIA 14:12)

1. Iz Andizhanskogo meditsinskogo instituta.  
(MEDICAL GEOGRAPHY)

SOKOLOV, N.P., prof.

Some aspects of the geographic distribution of hereditary diseases in man. Sov.med. no.3:3-8 '62. (MIRA 15:5)

1. Iz Andizhanskogo gosudarstvennogo meditsinskogo instituta.  
(HEREDITY OF DISEASE) (MEDICAL GEOGRAPHY)

SOKOLOV, N.P., prof.; ABDULLAYEVA, A.A., assistant (Andizhan)

Data on the developmental anomalies of newborn infants. *Zdrav.*  
Turk. 7 no. 1:11-14 Ja '63. (MIRA 16:3)  
(CHILDREN, ABNORMAL AND BACKWARD)

SOKOLOV, N.P., prof. (Andizhan)

Further develop research on the heredity of man. Sov. Med.  
27 no.7:3-6 Jl '63. (MIR16:9)  
(HEREDITY, HUMAN)

ACCESSION NR: AR4035554

S/0271/64/000/003/A026/A026

SCURCE: Ref. zh. Avtomat., telemekh. i vy\*chisl. Sv. t., Abs. 3A169

AUTHOR: Sokolov, M. P.

TITLE: Automaton for measuring radioactivity of a wire

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 4. M., Gosatomizdat, 1963, 53-63

TOPIC TAGS: wire radioactivity recorder, atomic reactor, neutron research

TRANSLATION: An automatic device for measuring the distribution of neutron flux along a reactor channel by a method of distributed-tracer activation is described. The irradiated wire is wound on the drum of a transport mechanism and then passed, according to a preset program, through a radiation detector. The wire length can be widely varied. The device comprises three desk type units of the transport mechanism and an electronic-block printing unit. The electronic block contains these units: (1) an amplifier-discriminator; (2) a counting-timing unit; (3) a printing unit; (4) a control unit with the tape-transport mechanism; (5) a stabilized h-v rectifier for supplying the radiation detector; (6) a power supply unit. The functioning of the above outfit is described in detail, and simplified diagrams and pictures are supplied. Bibliography: 2 titles.

DATE ACQ: 17Apr64  
Card 1/1

SUB CODE: NP

ENCL: 00

SOKOLOV, N.P.

Microclimate of the habitat of *Anopheles hyrcanus* and  
*Anopheles maculipennis* in rice fields. Med. paraz. i paraz.  
bol. 32 no.6:725-728 N-D '63 (MIRA 18:1)

1. Iz kafedry obshchey biologii i parazitologii (zav. - prof.  
N.P. Sokolov) Andizhanskogo meditsinskogo instituta.

SOKOLOV, Nikolay Petrovich; LOMAKIN, M.S., red.

[Hereditary diseases in man] Nasledstvennye bolezni che-loveka. Moskva, Meditsina, 1965. 336 p. (MIRA 18:8)

*SOKOLOV, N.P.*

*Sokolov, M. P. On the application of spatial matrices to the investigation of cubic ternary forms over the field of real numbers. Dopovidi Akad. Nauk Ukrainsk. RSR 1954, 159-164 (1954). (Ukrainian. Russian summary)*

This paper contains the results and methods used in classifications of ternary cubic forms. These are given more in detail in the papers hereafter. *E. M. Bruins.*

*Math*

*Sokolov, N. P. Projective classification of cubic ternary forms in the real domain. Ukrainsk. Mat. Z. 6 (1954), 405-417b (Russian)*

The author classifies first the non-degenerated cubic forms starting from the canonic form  $x^3+y^3+z^3+6mxyz$ ; he writes in full the seven numerically rather complicated transformations of the cubic matrix in the case  $T=0$ ,  $0 < m < 1$ ;  $T=0$ ,  $m < -1$ ;  $S=0$ ,  $m=1$ , where  $T$  and  $S$  denote the Clebsch invariants of the cubic form. If one takes into account that the simple ternary transformation

$$x = x' + y' + z'; y = -x' + y' + z'; z = \frac{6m}{1+2m^3}y' + \frac{1}{m}z',$$

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Sokolov, N. P.

transforms this cubic form into (apart from a factor)

$$2m^3(8m^6+20m^3-1)y^3 + (1+2m^3)^3z^3 + \\ 6(1+2m^3)^2m^3x^2y + 12m^3(1-m^3)yz^2$$

which gives for  $T=c(8m^6+20m^3-1)=0$  and for  $m=1$  directly three standard forms which the author obtains, one is led to the question what the particular interest and advantage of the use of three dimensional matrices is.

According to the same methods the author obtains standard forms for cubics with nodes, cusps and the various degenerations of cubics in conics and straight lines. Clebsch's analysis [Vorlesungen über Geometrie,

Bd. I, Teubner, Leipzig, 1876] seems to the reviewer to be much simpler and from the geometrical description all standard forms can be written down straightforward in the degenerate cases.

The author gives in full the matrices  $C, K$ , for his 13 standard forms. He does not remark that, in case the Hessian is proportional to the form,  $C$  and  $K$  are also proportional! In any case he gives explicitly all 81 elements of these matrices. E. M. Bruins (Amsterdam).

Sokolov, N. P. Projective classification of real plane curves of third order. Ukrain. Mat. Ž. 7 (1955), 295-304. 2/3

Sokolov, N.P.

This classification follows immediately from the paper reviewed above, in which canonical forms of all real cubic ternary forms  $F$  with respect to the group of real projective transformations are given.

When discriminant  $F=0$ , the canonical form is  $x_1^3+x_2^3+x_3^3+6mx_1x_2x_3$ ,  $m=-\frac{1}{2}$ , and when discriminant  $F=0$ , there are 13 canonical forms all without parameters. In the present paper the geometrical meaning of  $m$  is studied, and the other 3 types of cubic curves are described. The results are contained in two tables.

F. J. Terpstra (Pretoria).

3/3

*Sign'd*

SOKOLOV, N.P.

Invariants of a ternary trilinear form over a field of real  
numbers. Ukr.mat.zhur. 6 no.3:282-294 '54. (MLRA 8:5)  
(Invariants) (Forms, Ternary)

SOKLOV, N.P.

Projective classification of ternary trilinear forms in a real domain.  
Ukr. mat. zhur. 6 no.4:405-417 '54. (MLRA 8:5)  
(Forms, Ternary)

SOKOLOV, N.P.

Affine-projecting classification of cubic ternary forms in  
real domains. Dop. AN URSR no.4:315-317 '55. (MLRA 9:2)

1.Kiivs'kiy gidromeliorativniy institut. Predstaviv diysniy  
chlen AN URSR B.V.Gnedenko.  
(Differential invariants)

SOKOLOV, N.P.

Projective classification of real plane line of the third order.  
(MLRA 9:2)  
Ukr.mat.zhur. 7 no.3:295-304 '55.  
(Curves, Plane)

SUBJECT USSR/MATHEMATICS/Algebra  
AUTHOR SOKOLOV N.P.  
TITLE On pencils of real cubic ternary forms.  
PERIODICAL Izvestija Akad. Nauk 19, 201-232 (1955)  
reviewed 6/1956

CARD 1/1

PG - 93

The present paper is an extension of the author's results (Dopovidi Akad. Nauk ukrain RSR, No. 3, 159-164 (1954)) on the application of the space matrices for the investigation of real ternary cubic forms on the real number-field to investigations of pairs of forms and pencils of forms. The theory of the elementary divisors of the quadratic  $\lambda$ -matrices is extended to polynomial cubic matrices. It is shown that for symmetric real elementary transformations (e.g. multiplication of the  $j$ -th intersection of an orientation with the same number being different from zero) the rank, the elementary divisors and the characteristic (for suitable generalization of these notions) of a symmetric polynomial cubic matrix  $M(\mu, \nu)$  which are binary forms of the same order of  $\mu$  and  $\nu$ , remain unchanged. By use of relative Aronhold's invariants the author gives algebraic and arithmetic invariants of a pair of matrices and of the corresponding pencil of real cubic ternary forms relative to symmetric, real elementary transformations and not degenerated linear transformations, respectively. As a geometric interpretation, regular pencils of real plane curves of third order in projective coordinates are considered. For pencils with maximal characteristic of the corresponding polynomial cubic matrix, a complete classification and canonical equations are given.

SOKOLOV, N.P., inzhener.

Can a perpetual motor be invented? Izobr. v SSSR 2 no.7:26-27  
(MLRA 10:7)  
Jl '57.  
(Perpetual motion)

SOKOLOV, N.P.

Affine-projective classification of real plane lines of the  
third order [with summary in German]. Ukr.mat.zhur. 9  
no.2:176-194 '57. (MIRA 10:7)  
(Geometry, Differential)

SOCHOLOV, N.P., Doc Phys-Math Sci -- (diss) "Space <sup>time</sup> matrices and their applications to the theory of algebraic forms." Kiev, 1959. 40 pp with drawings (Acad Sci UkrSSR. Joint Council of Institutes of Mathematics, Physics, and Metallophysics). 150 copies (KL, 37-59,105)

2

SOV/4968

PHASE I BOOK EXPLOITATION

Sokolov, Nikolay Petrovich

Prostranstvennye matritsy i ikh prilozheniya (Multi-dimensional Matrices and Their Application) Moscow, Fizmatgiz, 1960. 300 p. 6,000 copies printed.

Ed.: L. B. Nisnevich; Tech. Ed.: S. S. Gavrilov.

PURPOSE: This book is intended for scientists working in the field of mathematics and its applications.

COVERAGE: The book discusses the theory of multidimensional matrices and determinants and its various applications. The fundamental results of ordinary matrix calculation are generalized for the case of three and more dimensions. Problems not yet sufficiently treated in the Russian mathematical literature are discussed. The basic text is accompanied by exercises which considerably widen the scope of the work. The introduction presents a brief historical review of the development and application of the theory of multidimensional matrices and determinants. The author

Card 1/4

SOKOLOV, N.P. (Kiyev)

Multidimensional determinants with integral elements. Ukr.  
mat. zhur. 16 no.1:126-132 '64. (MIRA 17:5)

САДОВСКИЙ, Н.Н. (СИГУНЬ)

Multidimensional determinants reducible to an ordinary Vandermonde determinant or its power. Ukr. Mat. zhur. 16 no.6: 1111-1117 (1964) (USSR 1964)

SOKOLOV, N.P.

Operations involving multidimensional matrices. Dokl. AN SSSR 163  
(MIRA 18:8)  
no.6:1322-1325 Ag '65.

1. Kiievskiy tekhnologicheskiy institut legkoy promyshlennosti.  
Submitted February 4, 1965.

KOKOLOV, N.F. (Kiyev)

Operations involving space matrices. Ukr. mat. zhur. 17  
no. 5:67-79 '65. (MIRA 18:12)

1. Submitted February 23, 1965.

SOKOLOV, N. R.

13604\* (Presowing Inoculation of Seeds.) *Predposyvnoe*  
obogashchenie semian. N. P. Sokolov, *Zemledelie*, v. 2, no. 2,  
Feb. 1954, p. 66-70.  
Effects on crop yields for different wheats. Tables.

SEKOLOV, N. P.

SEKOLOV, N. P.: "The relationship between the quantity and quality of products withdrawn during the grinding of wheat 'in torn systems'". Odessa, 1955. Min Higher Education USSR. Odessa Technological Inst imeni I. V. Stalin. (Dissertations for the degree of Candidate of Technical Science.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

Sokolov, N. P.

I-32

USSR /Chemical Technology. Chemical Products  
and Their Application

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32966

Author: Sokolov N.P.

Inst: Scientific and Technical Society of Milling,  
Grists Manufacture and Elevator Management

Title: Correlation Between Quantity and Quality of  
Products Recovered by Means of Milling

Orig Pub: Tr. Nauch.-tekhn. o-va mukomol. i krupyan.  
prom-sti i elevator. kh-va, 1956, No 4, 3-31

Abstract: In a theoretical study of the process of comminu-  
tion of the component parts of grain, the follow-

Card 1/4

USSR /Chemical Technology. Chemical Products  
and Their Application

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Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32966

ing are considered: Causes of changes in quality of the recovered product, quality of recovery and the hypothesis of a correlation between quantity and quality of recovery, for the verification of which production-scale experiments were conducted. The results obtained, as well as the data of other authors, confirmed a correlation between the quantity and the quality of recovery, in the case of the first four given systems, which is expressed, in a general form, by the equation:  $Z = [t(u - u^2) + a]^{1/n} - bu + c$ , wherein Z is ash content of recovery, in percent; u -- amount of recovery, expressed in

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Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32966

fractions of a unit, the amount of product subjected to the milling being taken as the unit;  $t$ ,  $a$ ,  $b$ ,  $c$  -- proportionality coefficients, such that the algebraic sum of  $a$ ,  $b$  and  $c$  is always equal to the ash-content (in percent) of the product subjected to milling;  $n$  -- exponent. A mathematical study of this equation is made in order to calculate the quantities that characterize the recovery process: dependence of the magnitude of ash-content of resultant product on the magnitude of recovery; actual ash-content of recovered product; amount and the content of endosperm and hulls in the recovered product; parameters of optimal conditions of milling. An

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USSR /Chemical Technology. Chemical Products  
and Their Application

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Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32966

investigation is also made of the effect of  
the magnitude of recovery in the 1-st given  
system, and procedures are indicated for prac-  
tical application of the results of the study.

Card 4/4

LOPATINSKIY, Semen Nikolayevich; ORLOV, Sergey Panteleymonovich; SOKOLOV,  
N.P., inzhener, redaktor; LAZAREVSKIY, L.I., redaktor; GOLUBKOVA, L.A.,  
tekhnicheskiy redaktor

[Installation and operation of weighing equipment of mills and elevators]  
Montazh i ekspluatatsiya vesovogo oborudovaniia mel'nits i elevatorov.  
Pod red. N.P. Sokolova. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam  
zagotovok, 1955. 39 p. (MLRA 9:1)

(Weighing-machines)

SOKOLOV, N.P.

Renewal of die inserts used in forging presses. Avt.trakt.prom. no.4:  
(MLRA 7:6)  
24-27 Ap '54.

1. Moskovskiy zavod Malolitrazhnykh avtomobiley.  
(Forging) (Dies (Metal-working))

SOKOLOV, N.P.; NIKOLAYEV, I.I.; ARSHANSKAYA, E.D.; NESTEROV, A.V.

Preliminary data on the effect of copper sulfate on the larvae  
of Anopheles and the algal pellicle of rice fields. Trudy  
Gidrobiol. ob-va 12:55-59 '62. (MIRA 15:12)

1. Kafedra biologii Andizhanskogo gosudarstvennogo  
meditsinskogo instituta, Andizhan, UzSSR.  
(Copper sulfate)  
(Mosquitoes--Extermination)  
(Algae)

ABDULLAYEVA, A.A. (Andizhan) ; ALEMOV, U.A. (Andizhan); SOKOLOV, N.P.  
(Andizhan)

History of medicogeographical investigations in Central Asia  
and Kazakhstan. Vladimir Ivanovich Dal'. Sovet. zdravookhr.  
12 no.1:80-84 '63 (MIRA 17:2)

SOKOLOV, Nikolay P.

Projective classification of the bundles of cubic triple form  
with a positive characteristic. Mat fyz cas SAV 13 no.4:241-  
259 '63.

1. Tekhnologicheskiy institut, Kiev.

SOKOLOV, N.P., inst.

analyzing the results of testing of aircraft fuel additives for the  
MiG-21, 5/13 engines. Truly LVI no. 2000-14. 164.  
(MIRE 18:10)

SOKOLY, N. I.

Organization of work for ovariectomy in young swine. Veterinariia, No. 1, 1964, p. 41.

N. I. SOKOLY, candidate in veterinary medicine, Naukochinoe sovkhosa "Mytishchi", Moskovskoy oblasti.

SOKOLOV, N. S.

Agriculture

(Principles of agriculture) Moskva, Gos. izd-vo selkhoz lit-ry, 1951.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 1953, Uncr.

CA SOKOLOV, N. S.

15A

Chemical methods of combating weeds in grain fields  
N. S. Sokolov and G. A. Chesalov. *Sovet Agron* (U.S.S.R.)  
No. 5, 10-23 (1951).—A report on the control of weeds  
chiefly by the Na salt of 2,4-D and 2M-4X (2-methyl-4  
chlorophenoxyacetic acid). These preps. are compared  
with dinitroresol and dinitrophenol, which act only on the  
plant organs that are coated with these reagents. All of  
these preps. were tested on grains (oats, rye, barley, wheat)  
and other crops, such as alfalfa, clover, and buckwheat.  
Applications of more than 1.5 kg./ha. of 2,4D and 2M-4X  
depressed crop yield. Buckwheat is more sensitive to the  
reagents than oats or wheat. The other herbicides were  
effective at 3-5 kg. ha J. S. Jolle

1. SOKOLOV, N. S.
2. USSR (600)
4. Sowing
7. Progressive methods for sowing grain crops. Dost. sel'khoz. no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

SOKOLOV, N. S.  
USSR/ Chemistry - Herbicides

Card 1/1 : Pub. 77, 11/26

Authors : Sokolov, N. S., Prof.

Title : Chemistry in the fight against weeds

Periodical : Nauka i zhizn' 21/7, 20 - 21, July 1954

Abstract : The chemicals experimented with as herbicides are mentioned, the most successful in eliminating weeds from grain crops is found to be a mixture of 2,4-dichlorophenoxyacetic acid and 2-methyl chlorophenoxyacetic acid. Practical experiences in using these preparations are related. Illustrations.

Institution : ...

Submitted : ...

SOKOLOV, N.S., professor.

New contribution to agricultural science. Nauka i zhizn' 21 no.11:  
14-16 N '54. (MIRA 7:12)  
(Tillage)

SOKOLOV, N. S.

Ministry of People's Education of the Soviet Union of Ministers USSR in the name of  
Science and Education announces that the following scientific works, regular scien-  
tific books and textbooks have been submitted for consideration for State Prize for  
Science and for the Prize of the Ministry of People's Education. (See: L. 1000, 15 Apr. 1974)

Sokolov, N. S.  
Yarkov, S. P.  
Chizhevskiy, M. G.  
Cherkasov, A. A.  
Shestakov, A. G.  
Gulyamin, I. V.  
Peterburgskiy, A. V.  
Troitskiy, A. N.  
Luk'yanyuk, V. I.  
Savzdar, E. E.  
Trofimovich, A. Ya.  
Kuznetsov, V. S.  
Kudryavtsev, N. Ye.  
Pronin, A. F.  
Alekhnin, N. V.  
Sachli, S. N.

Title of work:  
"Elements of Farming"  
(textbook)

Author:  
Moscow Agricultural Academy  
imeni K. A. Timiryazev

SOKOLOV, N. S. , ed.

Epp.  
.R92409

Obrabotka pochvy po metodu T. S. Mal'tseva v zernovykh rayonakh Kazakhstana.  
Treatment of soil according to the method of J. S. Mal'tsev in grain rayons of the  
Kazakh. Stornik statei. Moskva, Sel'khozgiz, 1955.  
99 F., diagrs., tables.

MOSOLOV, Vasiliy Petrovich, akademik; SOKOLOV, N.S., professor, redaktor;  
IVANOV, N.I., redaktor; TSVETKOVA, V.A., redaktor; PAVLOVA, M.M.,  
tekhnicheskiy redaktor

[Works; in five volumes] Sochineniia; v piati tomakh. Moskva, Gos.  
izd-vo selkhoz. lit-ry, Vol.5. [Papers and articles on cultivation  
practices and plant growing] Otdel'nye raboty i stat'i po agrotekhniki-  
ke i rastenievodstvu. 1955. 767 p.  
(Tillage) (Field crops) (MLRA 9:11)

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA, A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSHTEYN, S.A.; BITYUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BEUYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.; GOLDOVSKIY, Ye.M.; GORBUNOV, P.P.; GORYAINOV, F.A.; GRINBERG, B.G.; GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased]; DREMAYLO, P.G.; DYBITS, S.G.; D'YACHENKO, P.F.; DYURNBAUM, N.S., [deceased]; YEGORCHENKO, B.F., [deceased]; YEL'YASHKEVICH, S.A.; ZHEREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.; KASATKIN, F.S.; KATSUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV, I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.; LEBEDEV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LUUTSAU, V.K.; MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.; NYDEL'MAN, G.E.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.; POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG, G.V.; ROZENTRETER, B.A.; ROKOTAN, Ye.S.; RUKAVISHNIKOV, V.I.; BUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu.; STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.; FEDOROV, A.V.; FERE, N.S.; FRENKEL', N.Z.; KHAYFETS, S.Ya.; KHLOPIN, M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.; SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.B.; SHTERLING, S.Z.; SHUTYY, L.R.; SHUKH GAL'TER, L. Ya.; ERVAYS, A.V.;

(Continued on next card)

ANDREYEV, A.B. (continued) .... Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsenzent, redaktor; BERNER,  
GIM, B.M., retsenzent, redaktor; BERNAN, L.D., retsenzent, redaktor;  
BOLTINSKIY, V.N., retsenzent, redaktor; BONCH-BRUYEVICH, V.L.,  
retsenzent, redaktor; VELLER, M.A., retsenzent, redaktor; VINOGRADOV,  
A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenzent, redaktor;  
DEGTYAREV, I.L., retsenzent, redaktor; DEM'YANYUK, F.S., retsenzent;  
redaktor; DOBROSMYSLOV, I.N., retsenzent, redaktor; YELANGHIK, G.M.  
retsenzent, redaktor; ZHEMOCHKIN, D.N., retsenzent, redaktor;  
SHURAVCHENKO, A.N., retsenzent, redaktor; ZLODEYEV, G.A., retsenzent,  
redaktor; KAPLUNOV, R.P., retsenzent, redaktor; KUSAKOV, M.M.,  
retsenzent, redaktor; LEVINSON, L.Ye., [deceased] retsenzent, redaktor;  
VALOV, N.N., retsenzent, redaktor; MARKUS, V.A. retsenzent, redaktor;  
METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.M., retsenzent;  
redaktor; OLIVETSKIY, B.A., retsenzent, redaktor; PAVLOV, B.A.,  
retsenzent, redaktor; PANYUKOV, N.P., retsenzent, redaktor; PLAKSIN,  
I.N., retsenzent, redaktor; RAKOV, K.A. retsenzent, redaktor;  
RZHAVINSKIY, V.V., retsenzent, redaktor; RINBERG, A.M., retsenzent;  
redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K.G.,  
retsenzent, redaktor; RUTOVSKIY, B.N., [deceased] retsenzent,  
redaktor; RYZHOV, P.A., retsenzent, redaktor; SANDOMIRSKIY, V.B.,  
retsenzent, redaktor; SKRAMTAYEV, B.G., retsenzent, redaktor;  
SOKOV, V.S., retsenzent, redaktor; SOKOLOV, N.S., retsenzent,  
redaktor; SPIVAKOVSKIY, A.O., retsenzent, redaktor; STRAMENTOV, A.Ye.,  
retsenzent, redaktor; STRELETSKIY, N.S., retsenzent, redaktor;

(Continued on next card)

ANDREYEV, A.V., (continued) ... Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTOPAL, V.M., retsenzent, redaktor; SHESHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAN'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

(Continued on next card)

ANDREYEV, A.V. (continued) .... Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii  
slovar'. Redaktsionnyi sovet; IU.A.Stepanov i dr. Moskva, Gos.  
izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MIRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)  
(Technology--Dictionaries)

СОЛДАТ В. Н.С.

BENEDIKTOV, I.A., redaktor; GRITSENKO, A.V., redaktor; IL'IN, M.A., zamestniel' glavnogo redaktora, LAPTEV, I.D., LISKUN, Ye.F.; LOBANOV, P.P., glavnnyy redaktor; LYSENKO, T.D.; SKRYABIN, K.I.; STOLETOV, V.N.; PAVLOV, G.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SOKOLOV, N.S., professor, nauchnyy redaktor; ANTIPOV-KARATAYEV, I.N., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KARPINSKIY, N.P., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHESTAKOV, A.G., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; RUBIN, B.A., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KOMARNTISKIY, N.A., dotsent, nauchnyy redaktor; LYSENKO, T.D., akademik, nauchnyy redaktor; POLYAKOV, I.M., professor, nauchnyy redaktor; SHCHEGOLEV, V.N., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; YAKUSHKIN, I.V., akademik, nauchnyy redaktor; LARIN, I.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; SMELOV, S.P., professor, doktor biologicheskiy nauk, nauchnyy redaktor; EDELSHTEYN, V.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHCHERBACHEV, D.M., professor, doktor meditsinskikh nauk, nauchnyy redaktor; OGOLEVETS, G.S., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; YAKOVLEV, P.N., akademik, nauchnyy redaktor; YAKIMOV, V.P., agronom, nauchnyy redaktor [deceased], YTINGEN, G.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; TIMOFETYEV, N.N., professor, nauchnyy redaktor; TUROV, S.I., professor, doktor biologicheskikh nauk; YUDIN, V.M., akademik, nauchnyy redaktor; LISKUN, Ye.F., akademik, nauchnyy redaktor; VITT, V.O., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KALININ, V.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor

(Continued on next card)

BENEDIKTOV, I.A.--- (continued) Card 2.  
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SMETNEV, S.I., professor, doktor sel'skokhozyaystvennykh nauk, nauch-  
nyy redaktor; POPOV, I.S., professor, doktor sel'skokhozyaystvennykh  
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NIKHOV, G.S., professor, doktor khimicheskikh nauk, nauchnyy redaktor;  
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professor, doktor veterinarnykh nauk, nauchnyy redaktor; VIKTOROV,  
K.P., professor, doktor veterinarnykh nauk, nauchnyy redaktor;  
KOLYAKOV, Ya.Ye., professor, doktor veterinarnykh nauk, nauchnyy re-  
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redaktor; MARKOV, A.A., professor, doktor veterinarnykh nauk, nauchnyy  
redaktor; DOMRACHEV, G.V., professor, doktor veterinarnykh nauk,  
nauchnyy redaktor; OLYVKOV, B.M., professor, doktor veterinarnykh nauk  
nauchnyy redaktor [deceased]; FLEGMATOV, N.A., professor, doktor ve-  
ternarnykh nauk, nauchnyy redaktor; BOLTIINSKIY, V.N., professor,  
doktor tekhnicheskikh nauk, nauchnyy redaktor; VIL'YAMS, Vl.P., profes-  
sor, doktor tekhnicheskikh nauk, nauchnyy redaktor; KRASNOV, V.S.,  
kandidat tekhnicheskikh nauk, nauchnyy redaktor;

(Continued on next card)

BINEDIKTOV, I.A.---(continued) Card 3.  
YEVREINOV, M.G., akademik, nauchnyy redaktor; SAZONOV, N.A., doktor  
tekhnicheskikh nauk, nauchnyy redaktor; NIKANDROV, B.I., inzhener,  
nauchnyy redaktor; KOSTYAKOV, A.N., akademik, nauchnyy redaktor;  
CHERKASOV, A.A., professor, doktor tekhnicheskikh nauk, nauchnyy redak-  
tor; DAVITAYA, F.F., doktor sel'skokhozyaystvennykh nauk, nauchnyy  
redaktor; IVANOV, N.M., professor, doktor tekhnicheskikh nauk, nauchnyy  
redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy  
redaktor, LOZA, G.M., kandidat ekonomiceskikh nauk, nauchnyy redaktor;  
redaktor, SOSHANSKAYA, V.A., redaktor; ZAVARSKIY, A.I., redaktor; ROS-  
CHERNOV, A.V., kontrol'nyy redaktor; FILATOVA, N.I., redaktor; YEMEL'YANOVA,  
N.I., redaktor; SILIN, V.S., redaktor BRANZBURG, A.Yu., redaktor;  
MAGNITSKIY, A.V., redaktor terminov; KUDRYAVTSEVA, A.G., redaktor  
terminov; AKSENOVA, A.P., mladshiy redaktor; MALYAVSKAYA, O.A., mlad-  
shiy redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor

(Continued on next card)

~~BENEDIKTOV~~, I.A.---(continued) Card 4.

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